



OneSpan Sign **Archival Module User's** **Guide**

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Contact Us

Phone: 1-855-MYESIGN

e-Mail: sign.support@onespan.com

Customer Support: <https://www.esignlive.com/customer-support>

Resource Center: <https://www.esignlive.com/resource-center>

Company Website: <https://www.onespan.com>

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CHAPTER 1: Introduction

Document Purpose

The electronic-signature solution called *OneSpan Sign* provides a complete E-Signature Process Management platform for the Web, including preparing, distributing, reviewing, signing, and downloading documents.

The *Archival Module* is an *OneSpan Sign* component that enables administrators to archive data from and restore data to the *OneSpan Sign* Database. Specifically, administrators can:

- Copy data from/to a Production Database to/from an Archive Database
- Move data from/to a Production Database to/from an Archive Database
- Purge data from a Production Database



You cannot use a Production Database with more than one Archive Database. Similarly, you cannot use an Archive Database with more than one Production Database. Each Production Database must be used with a single Archive Database, and vice versa (a one-to-one map in both directions).



Each instance (i.e., separate installation) of the Archival Module requires one and only one Production Database.



Appendix B lists the Production Database tables with which the Archival Module can interact. **Note:** The Archival Module's current version does not operate on the *OneSpan Sign* Application Database. That database is used by the *OneSpan Sign* Application, and contains transaction-related information.

This guide describes how to use the Archival Module.

Its intended audience is Archival Module users, who are likely to be System Administrators, Database Administrators, or *OneSpan Sign* Administrators.

Document Conventions




This guide uses the font conventions in [Table 1-1](#) and the icon conventions in [Table 1-2](#).

Table 1-1: Font conventions

CONVENTION	USE
Bold	Highlights commands, menu names and choices, control names, entry-field names, icon names, and the first line of each procedure (e.g., "click the Archive tab")
<u>Underlined</u>	Highlights cross-references and Web links (e.g., "see Chapter 2 "). You can jump to links and cross-references by clicking the underlined text.
<i>Italics</i>	Highlights window names, book titles, new terms, and important text (e.g., "see the <i>On-Premises Deployment Guide</i> ")

CONVENTION	USE
Courier New	Highlights file names, directory names, code examples, entered data, and message text (e.g., "edit the file <code>commandline.properties</code> ")

Table 1-2: Icon conventions

ICON	USE	ICON	USE	ICON	USE
	Notes		Warnings		Tips or recommendations



The screenshots in this guide are illustrative only. They may differ from what you see when you use the Archival Module.

Related Documents

All product documentation for *OneSpan Sign* is described in the *Product Documentation* section of the *On-Premises Deployment Guide*.

Software Requirements

The software requirements for *OneSpan Sign* — including the Archival Module — are described in the *Software Requirements* section of the *On-Premises Deployment Guide*.

CHAPTER 2: Using the Archival Module

This chapter explains how to use the Archival Module after it has been installed. Specifically, the chapter discusses:

- [The Configuration File \(page 3\)](#)
- [Running the Archival Module \(page 3\)](#)

The Configuration File

The Archival Module is run from a command line, which works in a Windows or Linux environment. Specifically, the Archival Module runs a single command, which in turn calls a single Configuration File.

By default, that file is called "commandline.properties", and it is in the directory <ARCHIVAL_MODULE_HOME>. The Configuration File must be a *.properties file.



If you use the WebSphere JRE, you may see a Xalan-related exception in the Archival Module log file that begins with the following line:

```
INFO: Unable to patch xalan function table. Throwable occurred:  
java.lang.NoSuchFieldException: m_functions at  
java.lang.Class.getFieldImpl(Native Method) at  
java.lang.Class.getField(Class.java:726)
```

This exception is harmless.

[Table 2-1](#) describes the parameters in the Configuration File. The *M/C/O* column indicates if a parameter is:

- M (Mandatory) — Must be specified explicitly, perhaps partly because there is no default value
- C (Conditional) — Mandatory only if another parameter assumes a certain value
- O (Optional) — Never mandatory



The program ignores any line in the Configuration File that begins with a number sign (#). All comment lines therefore begin with this character.

Running the Archival Module

Prerequisites

- Your environment meets all relevant requirements in Chapter 2 of the *On-Premises Deployment Guide*.

Action

To run the Archival Module:

1. If not already done, locate the Configuration File and edit it to

appropriately specify the input parameters in [Table 2-1](#).

2. If not already done, edit the file "silAWSArchive.sh" (for Linux) or "silAWSArchive.cmd" (for Windows) to specify an appropriate value for JAVA_HOME.

3. If you are using the default Configuration File (<ARCHIVAL_MODULE_HOME>/commandline.properties), do one of the following:

- If you are on a Linux platform, run the following command:
silAWSArchive.sh



If you do not have permission to run silAWSArchive.sh, you may need to run the following command:

```
chmod 755 silAWSArchive.sh
```



If you do not have permission to use the IBM JRE, you may need to go to the Archival Module home directory, and then run the following command:

```
chmod 755 ./ibm/JAVA_HOME/bin/java
```

- If you are on a Windows platform, run the following command:
silAWSArchive.cmd

4. If you are *not* using the default Configuration File (<ARCHIVAL_MODULE_HOME>/commandline.properties), do one of the following:

- If you are on a Linux platform, run the following command:

```
silAWSArchive.sh -f <config_file_name>
```

Here <config_file_name> is the full pathname of the Configuration File.

- If you are on a Windows platform, run the following command:

```
silAWSArchive.cmd -f <config_file_name>
```

This procedure ends here.

Table 2-1: Parameters in the Configuration File

PARAMETER	M/C/O	VALUE
version		
Version of the schema for the Core Database	O	Default = <version of OneSpan Sign in which the Archival Module was compiled>
Example: version=4.8		

PARAMETER	M/C/O	VALUE
<p>action</p> <p>This parameter determines the action to be performed.</p>	M	<p>Possible values:</p> <ul style="list-style-type: none"> • move_and_purge_all — Moves all specified data from a source database to a target database, and deletes all moved data from the source database. • move_evidence_only — Moves only the Electronic Evidence™ among specified data from a source database to a target database, and deletes all moved data from the source database. • move_all_keep_evidence — Moves all specified data from a source database to a target database, and deletes all moved data <i>except</i> Electronic Evidence™ from the source database. • copy_all — Copies all specified data from a source database to a target database. • copy_evidence_only — Copies only the Electronic Evidence™ among specified data from a source database to a target database. • purge_all — Deletes all specified data from the Production Database. • purge_non_evidence — Deletes all specified data <i>except</i> Electronic Evidence™ from the Production Database. • purge_orphans — Deletes all "orphan data" from the Production Database.

PARAMETER	M/C/O	VALUE
<p>max_threads</p> <p>Number of threads that will run the Archival Module. You can use this parameter to speed up an archival process.</p> <p>Example: max_threads=5</p>	O	<p>Default: 5</p> <p>Warning: Too high a value of this parameter will slow the performance of other applications that use the Core Database (e.g., the Core Component).</p> <p>Note: The maximum workable value of this parameter is determined by the resources available on the server where the Archival Module is running.</p>
<p>max_purge_threads</p> <p>Number of threads that will run the Archival Module during a Purge operation</p> <p>Example: max_purge_threads=15</p>	O	<p>Possible values: An integer greater than zero</p> <p>Default: <max_threads></p> <p>Note: The value may be higher than the value of <i>max_threads</i>.</p>
<p>process_list_slice</p> <p>Size of the "slices" into which a list of processes is divided (e.g., the list specified by <i>id_range_list</i>). Each slice is the number of processes that will be grouped into a single database transaction.</p> <p>Example: process_list_slice=20</p> <p>Note: If there is an exception, all processes in the affected slice will be rolled back.</p>	O	<p>Possible values: An integer greater than zero</p> <p>Default: 200</p>

PARAMETER	M/C/O	VALUE
slice_per_table		
<p>This parameter is used only if the action in question is a <i>copy</i> or a <i>move</i>.</p> <p>The Production Database typically has multiple tables, and this parameter enables the relevant action to be performed on each table in a customized way.</p> <p>Consider the following example, where <i>action</i> = <i>copy_all</i>:</p>		
<pre>slice_per_table=AWS_ATTRIBUTE=1000;AWS_DOCUMENT_ATTRIBUTE=500;AWS_DOCUMENT_PAGE_MAP=100</pre>	O	<p>Possible values: An integer greater than zero</p> <p>No default.</p>
<p>In this case, the Archival Module will: (1) select 1000 rows of data from the <code>AWS_ATTRIBUTE</code> table, 500 rows of data from <code>AWS_DOCUMENT_ATTRIBUTE</code>, and 100 rows of data from <code>AWS_DOCUMENT_PAGE_MAP</code>; (2) copy all that data to the Archive Database; (3) repeat Steps 2 and 3 on the next slice of data until all data has been copied.</p>		
<p>Note: This parameter cannot act on any table whose name includes the string <code>_BIN</code>, or on the "twin" of such a table (with the same name minus the string <code>_BIN</code>).</p>		

PARAMETER	M/C/O	VALUE
delete_slice_per_table		
This parameter is used only if the action in question is a <i>purge</i> or a <i>move</i> .		
The Production Database typically has multiple tables, and this parameter enables the relevant action to be performed on each table in a customized way.		
Consider the following example, where <i>action</i> = <i>purge_all</i> :		
delete_slice_per_table=AWS_ATTRIBUTE=1000;AWS_DOCUMENT_ATTRIBUTE=500;AWS_DOCUMENT_PAGE_MAP=100	O	Possible values: An integer greater than zero
In this case, the Archival Module will: (1) select 1000 rows of data from the AWS_ATTRIBUTE table, 500 rows of data from AWS_DOCUMENT_ATTRIBUTE, and 100 rows of data from AWS_DOCUMENT_PAGE_MAP; (2) purge all that data from the Production Database; (3) repeat Steps 2 and 3 on the next slice of data until all data has been purged.		
Note: This parameter cannot act on any table whose name includes the string <i>_BIN</i> , or on the "twin" of such a table (with the same name minus the string <i>_BIN</i>).		
batch_size		
Number of elements to be sent in a database batch	O	Possible values: An integer greater than zero
Example: batch_size=500		Default: 2000
direction		
This parameter determines the direction of a move or copy action (the purge action always operates on the Production Database).		
Mandatory if action = <i>move</i> or <i>copy</i> ; irrelevant otherwise.	C	Possible values: <ul style="list-style-type: none"> • backup (default) • restore
The backup option transfers data from the Production Database to the Archive Database.		

PARAMETER	M/C/O	VALUE
<p>drop_partition</p> <p>This parameter determines if the system will drop all existing empty database partitions.</p>	O	<p>Possible values:</p> <ul style="list-style-type: none"> no (default) yes
<p>filter_method</p> <p>This parameter identifies the filtering method used to identify records that will be included in an action.</p>	M	<p>Possible values:</p> <ul style="list-style-type: none"> date_range id_range id_file id_directory
<p>date_range_filter</p> <p>Type of date-range filter. Used with the date_range parameter below.</p> <p>Mandatory if filter_method = date_range; ignored otherwise.</p>	C	<p>Possible values:</p> <ul style="list-style-type: none"> last_sig_added last_visited created
<p>date_range</p> <p>This parameter specifies a range of dates to be displayed in the format illustrated by the examples below.</p> <p>Mandatory if filter_method = date_range; ignored otherwise.</p> <p>Note: The expression "-Nd" (with a minus sign) always means N days before the current date. If the minus sign is omitted, the parameter's argument is not valid.</p> <p>Examples:</p> <ol style="list-style-type: none"> date_range = 10/31/2008 - 06/20/2009 Mixed mode: date_range = -60d - 12/25/2005 Offset-based interval in the past: date_range = -60d - -30d [This specifies the interval between 60 and 30 days ago.] Offset only (all records # of days prior to today's date): date_range = -60d - - 0d [This specifies the interval between 60 days ago and today.] <p>Note: A date range includes the entire day specified by its initial date or final date. Thus the range -1d - -0d includes all of yesterday and all of today.</p>	C	<p>Possible value: <from_date - to_date></p>

PARAMETER	M/C/O	VALUE
id_range_list		
Comma-separated list of ID ranges between curly brackets		
Mandatory if filter_method = id_range; ignored otherwise.	C	
Example: id_range_list = {1-3, 5, 7, 9-11}		
id_file		
Full pathname of a file that contains a list of Process IDs (PIDs) or a list of GUIDs — not both. This table often refers to such a file as an <i>ID file</i> .		
Warning: (1) An ID file cannot contain more than 65,000 GUIDs; (2) the contents of an ID file must not contain any instances of the TAB character (Unicode '\u0009'); (3) GUIDs can be specified in an ID file either one per line, or in a comma-separated list.		
Mandatory if filter_method = id_file; otherwise ignored.		
Ex. 1: id_file=/software/esam/idFile.csv id_file=c:\\software\\esam\\idFile.csv		
Ex. 2 (with a Microsoft Office Excel file): id_file=/software/esam/idFile.xls	C	
Note: If you follow Ex. 2 and you see the message in Figure 3-1 after you save the *.xls file, click Yes .		
Ex. 3: If you want to move back into Production all transactions that were successfully archived in the current session, you can use a file generated by the Archival Module (see the log parameter). For example: id_file=/software/esam/successfully_processed_October_02_2014_20h_07.log		
Note: Do not use the file in Ex. 3 to move more than 1000 processes. If you want id_file to move more processes, use a file that uses the interval notation of id_range_list (but without its curly brackets); for example, the contents of the file could include: 1000-10000, 10020, 10030, 15000-20000		

PARAMETER	M/C/O	VALUE
id_type		
Type of IDs in the ID file specified by id_file or by id_directory	O	Possible values: <ul style="list-style-type: none"> • pid (default) • guid
Example: id_type=guid		
id_directory		
Full pathname of a directory that contains a set of ID files, each of which contains a list of Process IDs or GUIDs to be archived		
Mandatory if filter_method = id_directory; otherwise ignored.	C	The possible values are a valid Windows or Unix directory path.
Requires the specification of id_file_pattern .		
Warning: The contents of the ID files <i>must not</i> contain any instances of the TAB character (Unicode '\u0009').		
Example: id_directory=/software/adam/		
id_file_pattern		
Any character string that can be recognized as a file name by the parameter id_directory	C	The characters permitted in the pattern are the standard ones for a file name, as well as the wildcard character '*'. If no pattern is specified, the default pattern used doesn't match any file name.
Mandatory if id_directory is used; ignored otherwise.		
Example: id_file_pattern=purge*.txt		
id_file_rename_to		
The name of an ID file <i>after</i> it has been archived	O	
Used only if the id_file or id_directory parameter is specified.		
Example: id_file_rename_to=completed		

PARAMETER	M/C/O	VALUE
id_file_move_to		
Full pathname of the directory where ID files will reside <i>after</i> they have been archived		
Used only if the id_file or id_directory parameter is specified.	0	
Note: This parameter does not apply to excluded ID files identified by the command exclude_method = id_file or id_directory .		
Example: id_file_move_to=c:/temp2		
match_attribute		
This parameter refines an action's date-range filter on the basis of e-signature process attributes. In particular, the parameter specifies a case-sensitive e-signature process attribute, a case-sensitive attribute value, and one of three possible "match operators" (relationships) between the specified attribute and value.	0	
Relevant only if filter_method = date_range .		
		<p>Possible values of match_attribute: <attribute_name, match_operator, attribute_value></p> <p>Possible values of the match_operator:</p> <ul style="list-style-type: none"> • isequalto • doesnotequal • beginswith <p>For example:</p> <p>match_attribute = signing_complete, isequalto, Yes</p> <p>This specifies that the action will be performed only on records for which the attribute <code>signing_complete</code> equals Yes.</p> <p>Note: The operator "doesnotequal" means "exists in the Production Database, and does not equal."</p>

PARAMETER	M/C/O	VALUE
exclude_method		
Filtering method used to identify e-signature processes to be excluded from an action		Possible values:
Used with the exclude_id_range_list , exclude_id_file , and exclude_id_directory parameters below.	O	<ul style="list-style-type: none"> • id_range • id_file • id_directory
If this parameter is not specified explicitly, it is ignored.		
exclude_id_range_list		
Comma-separated list of ID ranges between curly brackets		
Mandatory if exclude_method = <code>exclude_id_range_list</code> ; ignored otherwise.	C	
Example: <code>exclude_id_range_list = {1-3, 5, 7, 9-11}</code>		
exclude_id_file		
Pathname of an ID file that contains e-signature processes to be excluded from an action		
Mandatory if exclude_method = <code>id_file</code> ; ignored otherwise.	C	
Example: <code>exclude_id_file=/software/esam/excludeIdFile.txt</code>		
exclude_id_directory		
Pathname of a directory that contains ID files		
Mandatory if exclude_method = <code>id_directory</code> ; ignored otherwise.	C	The possible values are a valid Windows or Unix directory path.
Requires the specification of exclude_id_file_pattern .		
Example: <code>exclude_id_directory=/software/adam/</code>		

PARAMETER	M/C/O	VALUE
<p>exclude_id_file_pattern</p> <p>Any character string that can be recognized as a file name by the parameter exclude_id_directory</p> <p>Mandatory if exclude_id_directory is used; ignored otherwise.</p> <p>Example: exclude_id_file_pattern=not_purge*</p>	C	<p>The characters permitted in the pattern are the standard ones for a file name, as well as the wildcard character '*'. If no pattern is specified, the default pattern used doesn't match any file name.</p> <hr/> <p>Possible values:</p> <ul style="list-style-type: none"> • skip (default) • overwrite
<p>overwrite_mode</p> <p>This parameter determines if the system overwrites records in the destination database.</p>	O	<p>WARNING: Be careful not to overwrite valuable data if you use the <i>overwrite</i> option to restore data to the Production Database.</p> <hr/> <ul style="list-style-type: none"> • ALL — The parameters <i>log</i>, <i>submitted_log</i>, and <i>fail_log</i> will be generated. • NONE— No log parameters will be generated. • SUBMIT — The parameter <i>submitted_log</i> will be generated. • SUCCESS — The parameter <i>log</i> will be generated. • FAIL — The parameter <i>fail_log</i> will be generated. • SUBMITSUCCESS — The parameters <i>submitted_log</i> and <i>log</i> will be generated. • SUCCESSFAIL — The parameters <i>log</i> and <i>fail_log</i> will be generated. • SUBMITFAIL — The parameters <i>submitted_log</i> and <i>fail_log</i> will be generated.
<p>generate_logs</p> <p>Specifies which of the next three parameters in this table will be generated</p>	O	<hr/> <ul style="list-style-type: none"> • ALL — The parameters <i>log</i>, <i>submitted_log</i>, and <i>fail_log</i> will be generated. • NONE— No log parameters will be generated. • SUBMIT — The parameter <i>submitted_log</i> will be generated. • SUCCESS — The parameter <i>log</i> will be generated. • FAIL — The parameter <i>fail_log</i> will be generated. • SUBMITSUCCESS — The parameters <i>submitted_log</i> and <i>log</i> will be generated. • SUCCESSFAIL — The parameters <i>log</i> and <i>fail_log</i> will be generated. • SUBMITFAIL — The parameters <i>submitted_log</i> and <i>fail_log</i> will be generated.

PARAMETER	M/C/O	VALUE
log		
<p>Full pathname of a log file which lists all Process IDs and GUIDs that were <i>successfully</i> archived or purged in the current session</p> <ul style="list-style-type: none"> • Example: log=/software/esam/log/successfully_processed.log <p>Note: Immediately before the file extension, the system adds the time when the log file was created (see the default in the last column).</p>	0	<ul style="list-style-type: none"> • Default: <directory where you run the Archival Module>/successfully_processed_<month_date_year_hour_minute>.log
submitted_log		
<p>Full pathname of a log file which lists all Process IDs and GUIDs that were <i>submitted</i> to be archived or purged in the current session</p> <ul style="list-style-type: none"> • Example: submitted_log=software/esam/log/submitted_to_be_processed.log <p>Note: Immediately before the file extension, the system adds the time when the log file was created (see the default in the last column).</p>	0	<p>Default: <directory where you run the Archival Module>/submitted_to_be_processed_<month_date_year_hour_minute>.log</p>
fail_log		
<p>Full pathname of a log file that lists all Process IDs and GUIDs that failed when an <i>archive</i> or <i>purge</i> action was performed in the current session</p> <ul style="list-style-type: none"> • Example: fail_log=software/esam/log/failing_transactions.log <p>Note: Immediately before the file extension, the system adds the time when the log file was created (see the default in the last column).</p>	0	<p>Default: <directory where you run the Archival Module>/failing_transactions_<month_date_year_hour_minute>.log</p>

PARAMETER	M/C/O	VALUE
simulation_log		
<p>Full pathname of a log file which lists all Process IDs and GUIDs for which an <i>archive</i> or <i>purge</i> action was simulated in the current session</p> <ul style="list-style-type: none"> • Example: simulation_log=software/esam /log/simulation.log <p>Note: Immediately before the file extension, the system adds the time when the log file was created (see the default in the last column).</p>	0	<p>Default: <directory where you run the Archival Module>/simulation_<month_date_year_hour_minute>.log</p>
max_proc_number		
<p>Maximum number of <i>OneSpan Sign</i> processes to be treated by an action</p>	0	<p>Possible values: <number></p> <p>Default: 9999999</p> <p>0 (zero) means infinity.</p>
max_fail_number		
<p>Maximum number of <i>OneSpan Sign</i> processes permitted to fail before an action is stopped</p> <p>Note:</p> <ol style="list-style-type: none"> 1. The value of max_fail_number cannot be greater than the value of max_proc_number. 2. Setting max_fail_number = 0 means that an infinite number of processes are permitted to fail before the action is stopped. 	0	<p>Possible values: <number></p> <p>Default: 0</p> <p>0 (zero) means infinity.</p>
is_audit_archive		
<p>Parameter that determines if the system will record auditing information about your actions. If <i>true</i>, the list of all successfully archived processes will be stored in a database table called <i>AWS_ARCHIVE_AUDIT</i>.</p> <p>Note: This table will not store any processes that failed to be archived or purged. To obtain a list of such processes, see the parameter fail_log.</p>	0	<p>Possible values:</p> <ul style="list-style-type: none"> • false • true (default)
max_exec_time		
<p>An action's maximum execution time (in minutes). If this parameter is not specified explicitly, it is ignored.</p>	0	

PARAMETER	M/C/O	VALUE
ordered		Possible values:
Parameter that determines if an action will operate sequentially on a specified range or series of ranges	O	<ul style="list-style-type: none"> • false (default) • true
dbms		Possible values:
Name of the DBMS to be used	M	<ul style="list-style-type: none"> • db2 • mssql • oracle
awsng.db_source_schema		
Name of the schema that contains the tables of the Production Database	O	
If this parameter is not specified explicitly, the database uses a default schema name (= the value of db_source_user).		
awsng.db_source_url		
URL of the Production Database		
Ex. 1: db_source_url=jdbc:db2:// <db_server_name>:50000/<db_name>		
Ex. 2: db_source_url=jdbc:sqlserver:// <db_server_name>:1433;DatabaseName= <db_name>;sendStringParametersAs Unicode=false		
Ex. 3: db_source_url=jdbc:oracle:thin:@ <db_server_name>:1521:<db_name>	M	
Note: If your Database Server is Microsoft SQL Server, this URL <i>must</i> have the form: jdbc:sqlserver://<db_server>:<port>; DatabaseName=<db_name>; sendStringParametersAsUnicode= false		
Note: If your Database Server is DB2, this URL <i>must</i> have the form: jdbc:db2://<db_server_name>:50000/<db_name>;progressiveStreaming=2;		
awsng.db_source_user		
Username employed to access the Production Database	M	

PARAMETER	M/C/O	VALUE
<p>awsng.db_source_password</p> <p>Password used to access the Production Database</p>	M	The value of this parameter must be set and encrypted using the password-setter utility (see <i>Installing the Archival Module</i> in the <i>On-Premises Deployment Guide</i>).
<p>awsng.db_target_schema</p> <p>Name of the schema that contains the tables of the Archive Database</p> <p>If this parameter is not specified explicitly, the database uses a default schema name (= the value of db_target_user).</p>	O	
<p>awsng.db_target_url</p> <p>URL of the Archive Database</p> <p>Mandatory unless direction = <i>backup</i> and action = <i>purge_all</i> or <i>purge_non_evidence</i>.</p>	C	
<p>awsng.db_target_user</p> <p>Username employed to access the Archive Database</p> <p>Mandatory unless direction = <i>backup</i> and action = <i>purge_all</i> or <i>purge_non_evidence</i>.</p>	C	
<p>awsng.db_target_password</p> <p>Password used to access the Archive Database</p> <p>Mandatory unless direction = <i>backup</i> and action = <i>purge_all</i> or <i>purge_non_evidence</i>.</p>	C	The value of this parameter must be set and encrypted using the password-setter utility (see <i>Installing the Archival Module</i> in the <i>On-Premises Deployment Guide</i>).
<p>context_id</p> <p>This parameter specifies the desired context ID of transactions to be copied, purged, or moved. It acts as a filter on those operations.</p>	C	Valid values are the tenant names of <i>OneSpan Sign</i> applications, as specified using the Admin Console.
<p>status_list</p> <p>This parameter specifies the desired status of transactions to be copied, purged, or moved. It acts as a filter on those operations.</p>	C	<p>Possible values:</p> <ul style="list-style-type: none"> • 0: Status = New • 1: Status = Active • 2: Status = Suspended • 3: Status = Completed • 4: Status = Void • 5: Status = Canceled • 6: Status = Expired

PARAMETER	M/C/O	VALUE
skip_transaction_class		
<p>Parameter that determines if the system will skip a specified action (Purge, Move, or Copy) on one or more selected Transaction Classes. A Transaction Class is an <i>OneSpan Sign</i> transaction (stored in the <i>OneSpan Sign</i> Core Database) whose values can be re-used as defaults when a new <i>OneSpan Sign</i> transaction is created.</p> <p>For example, suppose you want to move all transactions whose Process IDs are in the interval [1-100], but that interval contains several Transaction Classes (with Process IDs = 9, 50, 98). If you don't want to move these classes, set this parameter to <i>true</i>.</p>	0	<p>Possible values:</p> <ul style="list-style-type: none"> • false (default) • true

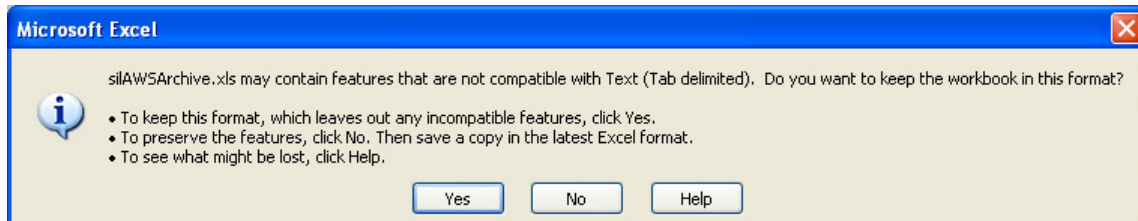


Figure 3-1: Message that may appear when using an Excel file with id_file

APPENDIX A: Error Codes

The following table describes the error codes returned by the Archival Module.

Table A-1: Archival Module error codes

CODE NUMBER	DESCRIPTION
0	Success (no error)
1	ACTION REQUIRED
2	ACTION RANGE
3	DBMS REQUIRED
4	DBMS RANGE
5	DIRECTION RANGE PURGE
6	DIRECTION RANGE
7	FILTER METHOD REQUIRED
8	FILTER METHOD RANGE
9	DATE RANGE FILTER REQUIRED
10	DATE RANGE FILTER
11	DATE RANGE REQUIRED
12	DATE RANGE PARSING
13	DATE FROM LATER NOW
14	DATE FROM LATER
15	ID TYPE RANGE
16	NOT ID RANGE LIST METHOD
17	ID RANGE REQUIRED
18	MATCH ATTRIBUTE RANGE
19	INVALID MAX FAIL RANGE
20	INVALID MAX FAIL GREATER THAN MAX PROC
21	INVALID MAX PROC RANGE
22	DB URL REQUIRED
23	DB PASSWORD ERROR
24	ID FILE REQUIRED
25	MAX THREADS NON SUPPORTED
44	In the <code>id_range {idFrom - idTo}</code> , <code>idFrom</code> cannot be larger than <code>idTo</code> .
45	At least one provided Process ID is not valid. Please review the contents of the file(s) corresponding to the specified Process ID(s).

CODE NUMBER	DESCRIPTION
46	There are overlapping ranges in the list specified by <i>id_range_list</i> or <i>id_file</i> .
47	I/O exception
48	File not found at the specified location. Please check the path and filename, and try again.
49	The <i>id_file</i> was not found at the specified location. Please check the path and filename, and try again.
50	Unsupported encoding while reading the file(s) corresponding to the specified <i>Process ID</i> (s)
51	ID IO EXCEPTION
52	Invalid parameter name in the configuration file <i>commandline.properties</i>
53	Java Exception type
54	Invalid command option. You must type: <code>silAWSArchive [-f <name of the properties file>]</code>
55	ERROR BEGIN END CHAR
56	ENCODING EXCEPTION
57	The file specified by <i>id_file</i> or <i>exclude_id_file</i> does not have valid content. For more information, see Table 2-1.
58	ERROR FILE CONTENT WEB
59	Remote exception
60	INCLUDE BOUNDS PROD
61	EXCLUDE BOUNDS PROD
62	Invalid range for one or more parameters in the configuration file <i>commandline.properties</i>
63	An SQL error occurred while the Archival Module was being used. For details, see the log files.
64	Password exception. Check the parameters <i>awsng.db_source_password</i> and <i>awsng.db_target_password</i> .
65	One or more failures occurred while archiving. For details, see the log files.
66	Invalid license. Check the file <code><ARCHIVAL_MODULE_HOME>/silanisLicense.xml</code> .
67	Java Runtime exception
68	The value of <i>archive_method</i> must be either <i>full</i> or <i>evidence</i> .
69	At least one provided GUID is not valid. Please review the contents of the file(s) corresponding to the specified GUID(s).
70	No file in <i>id_directory</i> matches the specified <i>id_file_pattern</i> .

CODE NUMBER	DESCRIPTION
71	No file in <i>exclude_id_directory</i> matches the specified <i>exclude_id_file_pattern</i> .
72	Invalid parameter value. Verify the configuration file <i>commandline.properties</i> .
73	NO CLASS DEF FOUND ERROR
74	NOT DATE RANGE METHOD
75	NOT ID FILE METHOD
76	INVALID NUMBER
77	NULL
78	LONGTERM EXCEPTION
-10	MODULES NOT DEFINED

APPENDIX B: Database Details

In its operations, the Archival Module can interact only with the following tables associated with a Production Database:

AWS_PROCESS_SESSION

AWS_SESSION

AWS_SESSION_ROLES

AWS_PAGE_LOG_CONTENT_BIN

AWS_PAGE_LOG_CONTENT

AWS_PAGE_LOG

AWS_PROMUL_JOB

AWS_USER

AWS_USER_ATTRIBUTE

AWS_USER_INVITE

AWS_USER_AUTHENTICATE

AWS_POST_ONLINE

AWS_PHONE

AWS_PAGE_MAP

AWS_PAGE_LOG_DOCUMENT_PAGE_BIN

AWS_PAGE_LOG_DOCUMENT_PAGE

AWS_PAGE_LOG_AUTOGRAPH

AWS_PAGE_LOG_IMAGE_MAP

AWS_PAGE_LOG_ROLE

AWS_PAD_LAYOUT

AWS_NOTIFICATION

AWS_INTERMEDIATE

AWS_HANDOFF

AWS_HANDBACK

AWS_EVENT
AWS_EVENT_NOTIFICATION_MAP
AWS_DOWNLOAD_PACKAGE
AWS_DOWNLOADED
AWS_DOWNLOADED_ROLE
AWS_DOCUMENT_PAGE_BIN
AWS_DOCUMENT_PAGE
AWS_DOCUMENT_GROUP
AWS_DOCUMENT_CONTENT_BIN
AWS_DOCUMENT_CONTENT
AWS_DOCUMENT
AWS_DOCUMENT_ACCEPTED
AWS_DOCUMENT_ATTRIBUTE
AWS_DOCUMENT_PAGE_MAP
AWS_DOCUMENT_VIEWED
AWS_DOCUMENT_FORMFIELD
AWS_FORM_FIELD_ATTRIBUTE
AWS_FINAL_DOCUMENT_CONTENT_BIN
AWS_FINAL_DOCUMENT_CONTENT
AWS_COMPLETED_PART
AWS_ATTRIBUTE
AWS_APPROVAL
AWS_APPROVAL_ATTRIBUTE
AWS_APPROVAL_AUTOFIELD
AWS_APPROVAL_BLOCK
AWS_AUTOGRAPH
AWS_ADDRESS

AWS_EVIDENCE

AWS_SMSTRACKS

AWS_PARTIAL_HASH

AWS_PAGE_LOG_FINAL_DOC_BIN

AWS_EVIDENCE_PATH

AWS_USER_EXTERNAL_SESSION

APPENDIX C: Glossary

TERM	DEFINITION
Admin Console	See <i>Administration Console</i> .
Administration Console	A module that enables <i>OneSpan Sign</i> Administrators to configure and maintain <i>OneSpan Sign</i>
Archival Module	A component of <i>OneSpan Sign</i> that enables administrators to archive data from and restore data to the <i>OneSpan Sign</i> Database
Archive Database	A database used by the Archival Module to archive a Production Database
Auditing	Making a record in the Production Database of auditing information about a copy, move, or purge operation within the Archival Module
Configuration File	A file of configuration settings required to run the Archival Module
Copy	<p>One of three operations that can be performed using the Archival Module (the others are Move and Purge). This operation copies data from a Production Database to an Archive Database (or vice versa), but does not alter any data in the source database. Use this action to do one of the following:</p> <ul style="list-style-type: none"> • Back up data to an Archive Database when you need to keep a copy in the Production Database • Restore data to a Production Database when you need to keep a copy in the Archive Database
Core Component	The primary component that supplies the <i>Platform's</i> core functionality (e.g., coordinate transactions and events, access the Data Model). It runs on an Application Server. The <i>Platform</i> is the core transactional and business logic of <i>OneSpan Sign</i> . It is based on the 5.5 version of <i>OneSpan Sign</i> (on-premises).
Core Database	A database used by the Core Component
Electronic Evidence™	Digital evidence related to an e-signature process, which <i>OneSpan Sign</i> collects and securely stores within the process. This evidence has legal significance, and can be used in a court of law.
e-signature process	The experience of an <i>OneSpan Sign</i> user as they review, accept, sign, and potentially download documents

TERM	DEFINITION
Move	<p>One of three operations that can be performed using the Archival Module (the others are Copy and Purge). This operation moves data from a Production Database to an Archive Database (or vice versa), deleting the data in the source database. Use this action to do one of the following:</p> <ul style="list-style-type: none"> • Back up data to an Archive Database when you no longer need the data on the Production Database • Restore data to a Production Database when you no longer need the data on the Archive Database
OneSpan Sign	Software that provides a complete E-Signature Process Management platform for the Web, including preparing, distributing, reviewing, signing, and downloading documents
OneSpan Sign Application	This is essentially the front end that before <i>OneSpan Sign</i> 6.0 was available only via a SaaS deployment. In <i>OneSpan Sign</i> 7.0, the Application is based on version 11 of <i>OneSpan Sign</i> (SaaS). Users, administrators, and integrators can interact with the Application using its GUI, its API, its SDKs, or its connectors.
process	See <i>e-signature process</i> .
Process ID	A unique ID assigned to each e-signature process
Production Database	An <i>OneSpan Sign</i> database used in a production environment
Purge	One of three operations that can be performed using the Archival Module (the others are Copy and Move). This action deletes selected records from the Production Database. Use this action when you no longer need the selected data in the Production Database.
Signature Block	A rectangular space within an electronic document whose purpose is to receive and display an electronic signature
Simulation	The simulation of a copy, move, or purge operation within the Archival Module. A simulation enables you to see how many records would be affected by the operation.
Transaction	See <i>e-signature process</i> .
Transaction Class	A transaction (stored in the <i>OneSpan Sign</i> Core Database) whose values can be reused as defaults when a new transaction is created